

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0610.099000AAPPLICATION NO.
09/610,838APPLICANT
Better et al.FILING DATE
July 6, 2000GROUP
To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AJ	AA1	4,675,382	06/23/1987	Murphy	530	350	11/06/1985
	AB1	4,769,326	09/06/1988	Rutter	435	68	04/12/1984
	AC1	4,853,871	08/01/1989	Pantoliano et al.	364	496	04/06/1987
	AD1	4,888,415	12/19/1989	Lambert	530	390	03/07/1988
	AE1	4,894,443	01/16/1990	Greenfield et al.	530	388	09/07/1984
	AF1	4,925,673	05/15/1990	Steiner et al.	424	455	09/08/1987
	AG1	4,946,778	08/07/1990	Ladner et al.	435	69.6	01/19/1989
	AH1	5,013,653	05/07/1991	Huston et al.	435	69.7	12/28/1989
	AI1	5,028,530	07/02/1991	Lai et al.	435	69.1	02/05/1990
	AJ1	5,091,513	02/25/1992	Huston et al.	530	387	01/02/1991
	AK1	5,093,475	03/03/1992	Carroll et al.	530	391.9	12/21/1989

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
AJ	AL1	WO 83/03971	11/24/1983	WIPO			Yes No
	AM1	WO 85/03508	08/15/1985	WIPO			Yes No
	AN1	WO 86/00090	01/03/1986	WIPO			Yes No
	AO1	EP 192 002 A1	08/27/1986	Europe			Yes Abstract No
	AP1	WO 86/05098	09/12/1986	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AJ	AR	1	Antin, J.H., et al., "Selective Depletion of Bone Marrow T Lymphocytes With Anti-CD5 Monoclonal Antibodies: Effective Prophylaxis for Graft-Versus-Host Disease in Patients With Hematologic Malignancies," <i>Blood</i> 78:2139-2149, W. B. Saunders (October 1991).
	AS	1	Asano, K., et al., "Isolation and Characterization of Inhibitors of Animal Cell-Free Protein Synthesis from Barley Seeds," <i>Carlsberg Res. Comm.</i> 49:619-626, Springer-Verlag (1984).
	AT	1	Bacha, P., et al., "Interleukin 2 Receptor-Targeted Cytotoxicity," <i>J. Exp. Med.</i> 167:612-622, The Rockefeller University Press (February 1988).

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As	AA2	5,101,025	03/31/1992	Piatak Jr. et al.	536	27	09/07/1989
	AB2	5,169,939	12/08/1992	Gefter et al.	530	387.3	04/09/1989
	AC2	5,376,546	12/27/1994	Bernhard et al.	435	199	06/19/1992
	AD2	5,416,202	05/16/1995	Bernhard et al.	536	23.2	12/09/1992
	AE2	5,621,083	04/15/1997	Better et al.	530	391.9	04/18/1995
	AF2	5,624,827	04/29/1997	Rosenblum et al.	435	91.5	10/21/1994
	AG2	5,631,348	05/20/1997	Rosenblum et al.	530	370	06/06/1994
	AH2	5,744,580	04/28/1998	Better et al.	530	377	06/07/1995
	AI2	5,756,699	05/26/1998	Better et al.	536	23.4	06/07/1995
	AJ2	5,837,491	11/17/1998	Better et al.	435	69.1	05/13/1996
	AK2	6,146,631	11/14/2000	Better et al.	424	183.1	04/15/1997

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As	AL2	WO 87/02987	05/21/1987	WIPO	I	I	Yes No
	AM2	EP 0 239 400 A2	09/30/1987	Europe	I	I	Yes No
	AN2	WO 88/01649	03/10/1988	WIPO	I	I	Yes No
	AO2	WO 88/07085	09/22/1988	WIPO	I	I	Yes No
	AP2	WO 88/09344	12/01/1988	WIPO	I	I	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

As	AR	2	Barry, B.W., ed., in <i>Dermatological Formulations - Percutaneous Absorption</i> , Marcel Decker, Inc., New York, N.Y., pp. 180-181 (1983).
	AS	2	Batra, J.K., et al., "Single-Chain Immunotoxins Directed at the Human Transferrin Receptor Containing <i>Pseudomonas</i> Exotoxin A or Diphtheria Toxin: Anti-TFR(Fv)-PE40 and DT388-Anti-TFR(Fv)," <i>Mol. Cell. Biol.</i> 11:2200-2205, American Society for Microbiology (April 1991).
	AT	2	Batra, J.K., et al., "Anti-Tac(Fv)-PE40, a Single Chain Antibody <i>Pseudomonas</i> Fusion Protein Directed at Interleukin 2 Receptor Bearing Cells," <i>J. Biol. Chem.</i> 265:15198-15202, American Society for Biochemistry and Molecular Biology, Inc. (September 1990).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
A	AL3	WO 89/00999	02/09/1989	WIPO	I	I	Yes No
	AM3	AU 27617/88	07/06/1989	Australia	I	I	Yes No
	AN3	WO 89/06967	08/10/1989	WIPO	I	I	Yes No
	AO3	WO 89/06968	08/10/1989	WIPO	I	I	Yes No
	AP3	GB 2,216,891	10/18/1989	Great Britain	I	I	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

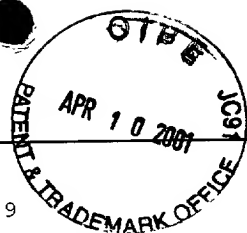
A	AR	3	Benatti, L., et al., "Nucleotide sequence of cDNA coding for saporin-6, a type-1 ribosome-inactivating protein from <i>Saponaria officinalis</i> ," <i>Eur. J. Biochem.</i> 183:465-470, The Federation of American Societies for Experimental Biology (1989).
AS	AS	3	Bernhard, S.L., et al., "Cysteine Analogs of Recombinant Barley Ribosome Inactivating Protein Form Antibody Conjugates with Enhanced Stability and Potency in Vitro," <i>Bioconjugate Chem.</i> 5:126-132, American Chemical Society (March 1994).
AT	AT	3	Better, M., et al., " <i>Escherichia coli</i> Secretion of an Active Chimeric Antibody Fragment," <i>Science</i> 240:1041-1043, Association for the Advancement of Science (May 1988).

EXAMINER A. S.	DATE CONSIDERED 4/1/81
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL4	WO 89/09622	10/19/1989	WIPO			Yes No
	AM4	WO 90/02569	03/22/1990	WIPO			Yes No
	AN4	WO 90/10015	09/07/1990	WIPO			Yes No
	AO4	WO 90/12592	11/01/1990	WIPO			Yes No
	AP4	WO 91/02000	02/21/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	Better, M., et al., "Generation of Potent Immunoconjugates from Microbially Produced Fab', F(ab') ₂ , and Recombinant Ribosome Inactivating Proteins," (Poster), Third Intl. Symposium on Immunotoxins, Orlando, FL (June 1992).
	AS	4	Better, M., et al., "Activity of Recombinant Mitogillin and Mitogillin Immunoconjugates," J. Biol. Chem. 267:16712-16718, American Society for Biochemistry and Molecular Biology, Inc. (August 1992).
	AT	4	Better, M., et al., "Potent anti-CD5 ricin A chain immunoconjugates from bacterially produced Fab' and F(ab') ₂ ," Proc. Natl. Acad. Sci. USA 90:457-461, National Academy of Sciences of the USA (January 1993).

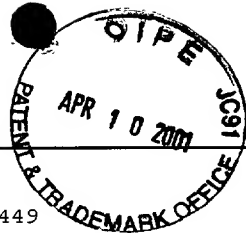
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	AL5	EP 438 310 A1	07/24/1991	Europe	I	I	Yes No
	AM5	EP 170 697 B1	10/23/1991	Europe	I	I	Yes No
	AN5	WO 91/19745	12/26/1991	WIPO	I	I	Yes No
	AO5	WO 92/03144	03/05/1992	WIPO	I	I	Yes No
	AP5	WO 92/06117	04/16/1992	WIPO	I	I	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AS	AR	5	Better, M., et al., "Gelonin Analogs with Engineered Cysteine Residues Form Antibody Immunoconjugates with Unique Properties," <i>J. Biol. Chem.</i> 269:9644-9650, American Society for Biochemistry and Molecular Biology, Inc. (April 1994).
	AS	5	Better, M., et al., "T Cell-targeted Immunofusion Proteins from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 270:14951-14957, American Society for Biochemistry and Molecular Biology, Inc. (June 1995).
	AT	5	Blakey, D.C., et al., "Antibody Toxin Conjugates: A Perspective," <i>Monoclonal Antibody Therapy Prog. Allergy</i> 45:50-90, Karger (1988).

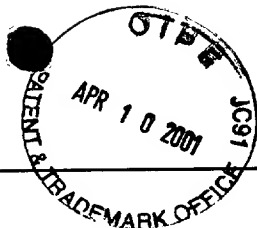
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AJ	AL6	WO 92/08495	05/29/1992	WIPO	I	I	Yes
							No
	AM6	WO 92/09613	06/11/1992	WIPO			Yes
							No
	AN6	WO 92/11018	07/09/1992	WIPO			Yes
							No
	AO6	WO 92/14491	09/03/1992	WIPO			Yes
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	AP6	WO 92/15327	09/17/1992	WIPO			Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AJ	AR	6	Bolognesi, A., et al., "A comparison of anti-lymphocyte immunotoxins containing different ribosome-inactivating proteins and antibodies," <i>Clin. Exp. Immunol.</i> 89:341-346, Blackwell Scientific Publications (September 1992).
	AS	6	Brown, D., et al., "Customizing Lab Mice," <i>The Washington Post</i> :A1 and A4, <i>The Washington Post</i> (August 21, 1992).
	AT	6	Byers, V.S., et al., "Use of an Anti-Pan T-Lymphocyte Ricin A Chain Immunotoxin in Steroid-Resistant Acute Graft-Versus-Host Disease," <i>Blood</i> 75:1426-1432, W. B. Saunders (April 1990).

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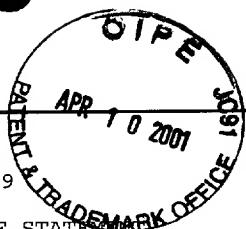
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	AL7	EP 506 124 A1	09/30/1992	Europe	I	I	Yes No
	AM7	WO 92/22324	12/23/1992	WIPO	I	I	Yes No
	AN7	EP 519 596 A1	12/23/1992	Europe	I	I	Yes No
	AO7	WO 93/05168	03/18/1993	WIPO	I	I	Yes No
	AP7	WO 93/09130	05/13/1993	WIPO	I	I	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	7	Caron, P.C., et al., "Engineered Humanized Dimeric Forms of IgG Are More Effective Antibodies," <i>J. Exp. Med.</i> 176:1191-1195, The Rockefeller University Press (October 1992).
AS	7	Casellas, P., et al., "Optimal Elimination of Leukemic T Cells from Human Bone Marrow With T101-Ricin A-Chain Immunotoxin," <i>Blood</i> 65:289-297, W. B. Saunders (February 1985).
AT	7	Chaudhary, V.K., et al., "A recombinant immunotoxin consisting of two antibody variable domains fused to <i>Pseudomonas</i> exotoxin," <i>Nature</i> 339:394-397, Macmillan Publishers Ltd. (June 1989).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Chaudhary, V.K., et al., "A rapid method of cloning functional variable-region antibody genes in <i>Escherichia coli</i> as single-chain immunotoxins," <i>Proc. Natl. Acad. Sci. USA</i> 87:1066-1070, National Academy of Sciences of the USA (February 1990).
	AS	8	Cheadle, C., et al., "Cloning and Expression of the Variable Regions of Mouse Myeloma Protein MOPC315 in <i>E. Coli</i> : Recovery of Active F ₁ Fragments," <i>Mol. Immunol.</i> 29:21-30, Pergamon Press (January 1992).
	AT	8	Chow, T., et al., "Isolation and DNA Sequence of a Gene Encoding α -Trichosanthin, a Type 1 Ribosome-inactivating Protein," <i>J. Biol. Chem.</i> 265:8670-8674, American Society for Biochemistry and Molecular Biology, Inc. (May 1990).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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A1	AR	2	Co, M.S., et al., "Humanized antibodies for antiviral therapy," <i>Proc. Nat. Acad. Sci. USA</i> 88:2869-2873, National Academy of Sciences of the USA (April 1991).
	AS	2	Colombatti, M., et al., "Selective Killing of Target Cells By Antibody-Ricin A Chain or Antibody-Gelonin Hybrid Molecules: Comparison of Cytotoxic Potency and Use in Immunoselection Procedures," <i>J. Immunol.</i> 131:3091-3095, American Association of Immunologists (December 1983).
	AT	2	Delprino, L., et al., "Toxin-Targeted Design for Anticancer Therapy. II: Preparation and Biological Comparison of Different Chemically Linked Gelonin-Antibody Conjugates," <i>Journal of Pharm. Sci.</i> 82:699-704, American Pharmaceutical Association (July 1993).

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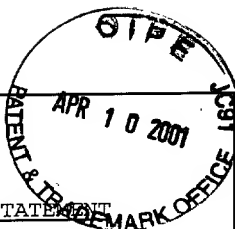
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	AR	<u>10</u>	Descotes, G., et al., "The Immunological Activity of Plant Toxins Used in the Preparation of Immunotoxins - II. The Immunodepressive Activity of Gelonin," <i>J. Immunopharm.</i> 7:455-463, International Society for Immunopharmacology (1985).
	AS	<u>10</u>	Dower, W.J., et al., "High efficiency transformation of <i>E. coli</i> by high voltage electroporation," <i>Nucleic Acids Res.</i> 16:6127-6145, IRL Press Limited (1988).
	AT	<u>10</u>	Ebert, R.F., and Spryn, L.A., "Immunotoxin Construction with a Ribosome-Inactivating Protein from Barley," <i>Bioconjugate Chem.</i> 1:331-336, American Chemical Society (February 1990).

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AS	AR	<u>11</u>	Ellman, G.L., "Tissue Sulfhydryl Groups," Arch. Biochem. Biophys. 82:70-77, Academic Press (1959).
	AS	<u>11</u>	Fishwild, D.M., et al., "Cytotoxicity against human peripheral blood mononuclear cells and T cell lines mediated by anti-t cell immunotoxins in the absence of added potentiator," Clin. Exp. Immunol. 86:506-513, Blackwell Scientific Publisher (December 1991).
	AT	<u>11</u>	Fishwild, D.M., et al., "Characterization of the increased cytotoxicity of gelonin anti-T cell immunoconjugates compared with ricin A chain immunoconjugates," Clin. Exp. Immunol. 97:10-18, Blackwell Scientific Publications (July 1994).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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AR	12	Glockshuber, R., et al., "A Comparison of Strategies To Stabilize Immunoglobulin F _v -Fragments," <i>Biochem.</i> 29:1362-1367, American Chemical Society (February 1990).
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AT	12	Habuka, N., et al., "Amino Acid Sequence of Mirabilis Antiviral Protein, Total Synthesis of Its Gene and Expression in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 264:6629-6637, American Society for Biochemistry and Molecular Biology, Inc. (April 1989).

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AS	AR	<u>13</u>	Halling, K.C., et al., "Genomic cloning and characterization of a ricin gene from <i>Ricinus communis</i> ," <i>Nucleic Acids Res.</i> 13:8019-8033, IRL Press Limited (1985).
	AS	<u>13</u>	Harris, P., et al., "In Vitro Studies of the Effect of MAb NDA 4 Linked to Toxin on the Proliferation of a Human EBV-Transformed Lymphoblastoid B Cell Line and of Gibbon MLA Leukemia Cell Line," <i>Cell. Immunol.</i> 134:85-95, Academic Press, Inc. (April 1991).
	AT	<u>13</u>	Hertler, A. A., and Frankel, A.E., "Immunotoxins: A Clinical Review of Their Use in the Treatment of Malignancies," <i>J. Clin. Oncol.</i> 7:1932-1943, American Society of Clinical Oncology (December 1989).

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AT	AR	14	Ho, W.K.K., et al., "Cloning of the cDNA of α -momorcharin: a ribosome inactivating protein," <i>Biochem. Biophys. Acta</i> 1088:311-314, Elsevier Science Publishers B.V. (February 1991).
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	AT	14	Islam, M.R., et al., "Complete Amino Acid Sequence of Luffin-a, a Ribosome-inactivating Protein from the Seeds of <i>Luffa cylindrica</i> ," <i>Agric. Biol. Chem.</i> 54:1343-1345, Agricultural Chemical Society of Japan (May 1990).

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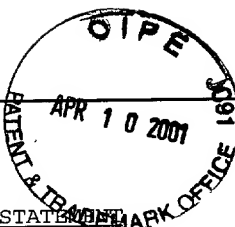
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	AS	15	Jones, P.J., et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," Nature 321:522-525, Macmillan Publishers Ltd. (May 1986).
	AT	15	Junghans, R.P., et al., "Anti-Tac-H, a Humanized Antibody to the Interleukin 2 Receptor with New Features for Immunotherapy in Malignant and Immune Disorders," Cancer Res. 50:1495-1502, American Association For Cancer Research (March 1990).

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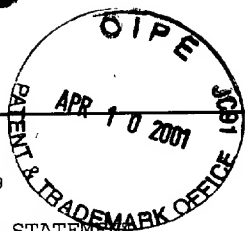
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A ↓	AR	16	Katzin, B.J., et al., "Structure of Ricin A-Chain at 2.5 Å," <i>Proteins: Structure, Function and Genetics</i> 10:251-259, Wiley-Liss, Inc. (June 1991).
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	AT	16	Knebel, K.D., et al., "Quantitative Equilibrium Binding of Monoclonal Antibodies, Immunotoxins, and Radioimmunoimaging Agents by Flow Cytometry," <i>Cytometry Suppl.</i> 1:68, Alan R. Liss, Inc. (1987).

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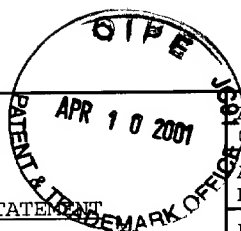
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	AR	<u>17</u>	Knowles, P.P., et al., "Purification of Immunotoxins Containing Ricin A-Chain and Abrin A-Chain Using Blue Sepharose CL-6B," Anal. Biochem. 160:440-443, Academic Press, Inc. (1987).
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	AR	<u>18</u>	Kong, K., et al., "Subacute Intravenous Toxicity of a Ribosomal Inhibitory Protein, rGelonin, in Rats," (Poster) American College of Toxicology, San Francisco, CA (October 1992).
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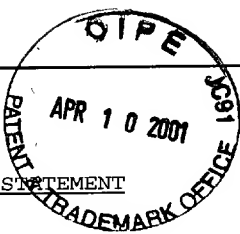
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AI	AR	<u>19</u>	Laurent, G., et al., "Donor bone marrow treatment with T101 Fab fragment-ricin A-chain immunotoxin prevents graf-versus-host disease," <i>Bone Marrow Transplantation</i> 4:367-371, Macmillan Press Ltd. (1989).
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	AT	<u>19</u>	Li, S.S.-L., et al., "Purification and partial characterization of two lectins from <i>Momordica charantia</i> ," <i>Experientia</i> 36:524-527, Birkhäuser Verlag (1980).

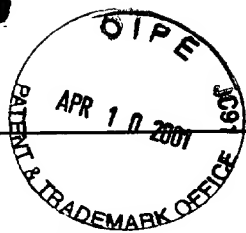
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AS	AR	20	Madan, S., and Ghosh, P.C., "Interaction of Gelonin With Macrophages: Effect of Lysosomotropic Amines," <i>Exper. Cell Res.</i> 198:52-58, Academic Press, Inc. (January 1992).
	AS	20	Montecucchi, P.C., et al., "N-terminal sequence of some ribosome-inactivating proteins," <i>Int. J. Peptide Protein Res.</i> 33:263-267, Munksgaard (1989).
	AT	20	Morishima, Y., et al., "Functionally Different T Lymphocyte Subpopulations Determined By Their Sensitivity to Complement-Dependent Cell Lysis With the Monoclonal Antibody 4A," <i>J. Immunol.</i> 129:1091-1098, American Association of Immunologists (September 1982).

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	AR	<u>21</u>	Mountain, A., and Adair, J.A., "Engineering Antibodies for Therapy," in <i>Biotechnology and Genetic Engineering Reviews</i> 10:1-142, Intercept Ltd., Andover, U.K. (December 1992).
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	AT	<u>21</u>	Myers, E.W., and Miller, W., "Optimal alignments in linear space," <i>Cabios Commun.</i> 4:11-17, IRL Press Limited (1988).

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AS	AR	22	Nolan, P.A., et al., "Cloning and expression of a gene encoding gelonin, a ribosome-inactivating protein from <i>Gelonium multiflorum</i> ," <i>Gene</i> 134:223-227, Elsevier Science Publishers B.V. (December 1993).
	AS	22	Ogata, M., et al., "Processing of <i>Pseudomonas</i> Exotoxin by a Cellular Protease Results in the Generation of a 37,000-Da Toxin Fragment That is Translocated to the Cytosol," <i>J. Biol. Chem.</i> 265:20678-20685, American Society for Biochemistry and Molecular Biology, Inc. (November 1990).
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	AT	23	Potter, H., et al., "Enhancer-dependent expression of human κ immunoglobulin genes introduced into mouse pre-B lymphocytes by electroporation," <i>Proc. Natl. Acad. Sci. USA</i> 81:7161-7165, National Academy of Sciences of the USA (November 1984).

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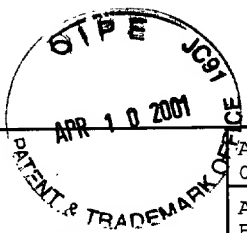
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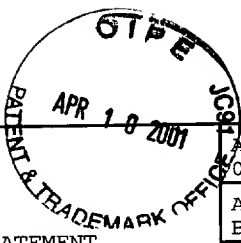
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	AR	<u>25</u>	Ready, M., et al., "Ricin-like Plant Toxins are Evolutionarily Related to Single-chain Ribosome-inhibiting Proteins from <i>Phytolacca</i> ," J. Biol. Chem. 259:15252-15256, American Society of Biological Chemists, Inc. (December 1984).
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INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.
#610.099000AAPPLICATION NO.
09/610,838APPLICANT
Better et al.FILING DATE
July 6, 2000GROUP
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
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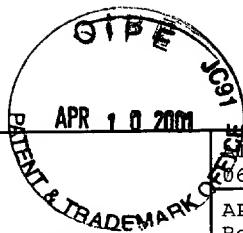
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AR	30	Stirpe, F., et al., "Modification of ribosomal RNA by ribosome-inactivating proteins from plants," <i>Nucleic Acids Research</i> , 16:1349-1357, IRL Press Limited (February 1988).
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AS	AR	<u>31</u>	Thorpe, P.E., et al., "Improved Antitumor Effects of Immunotoxins Prepared with Deglycosylated Ricin A-Chain and Hindered Disulfide Linkages," <i>Cancer Res.</i> 48:6396-6403, American Association For Cancer Research (November 1988).
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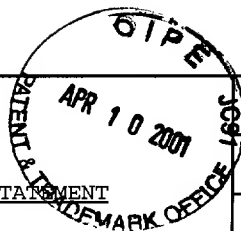
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